

FIG. 1

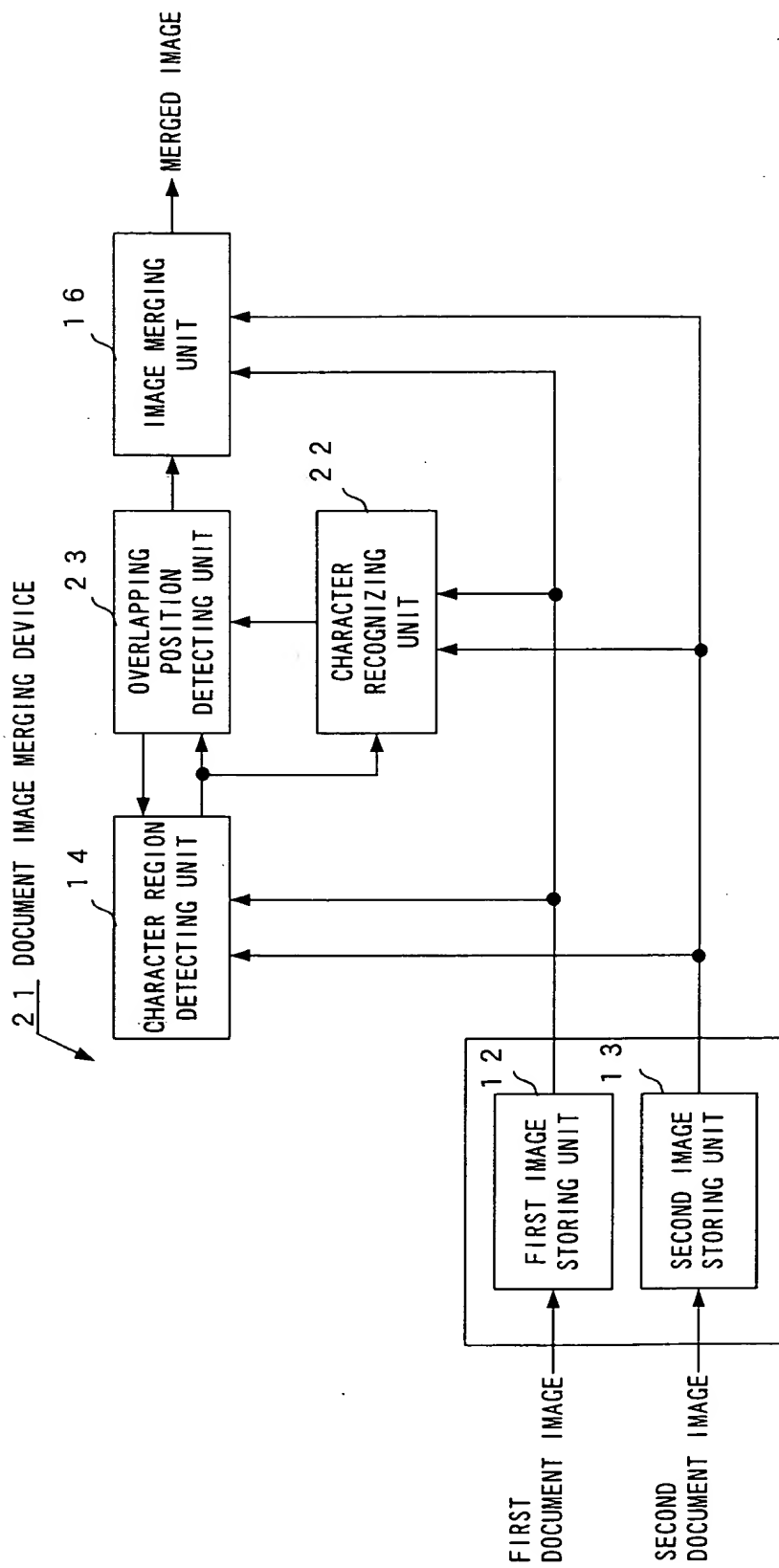


FIG. 2

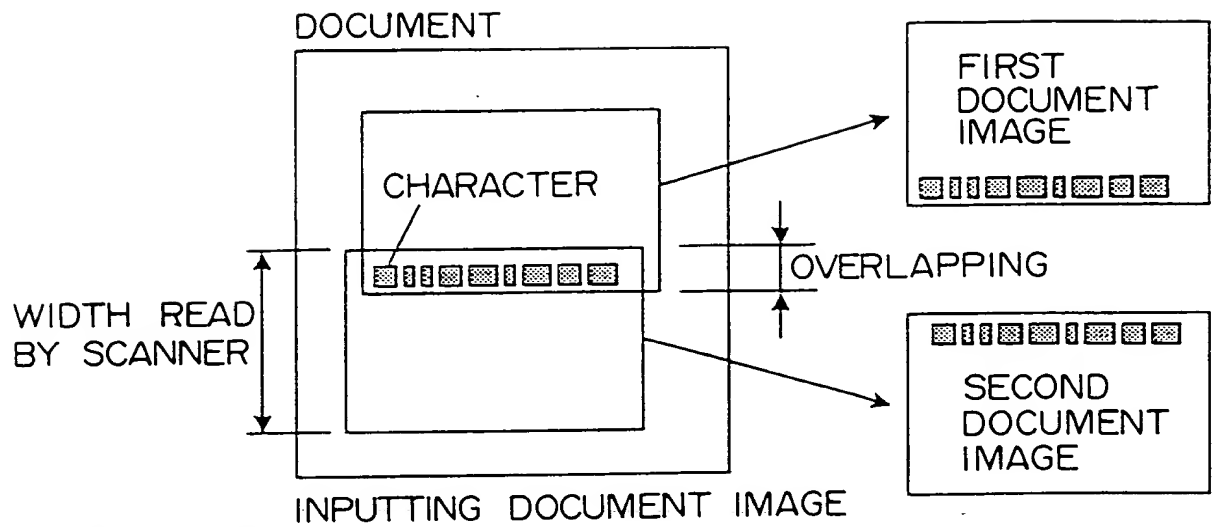


FIG. 3A

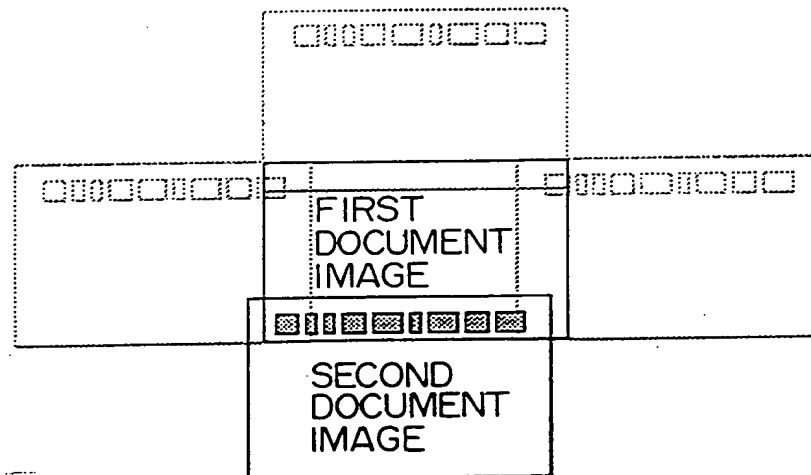


FIG. 3B

DETECTING OVERLAPPING POSITION

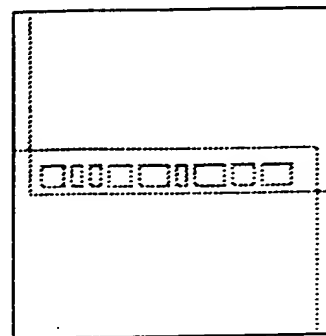


FIG. 3C

MERGING IMAGE

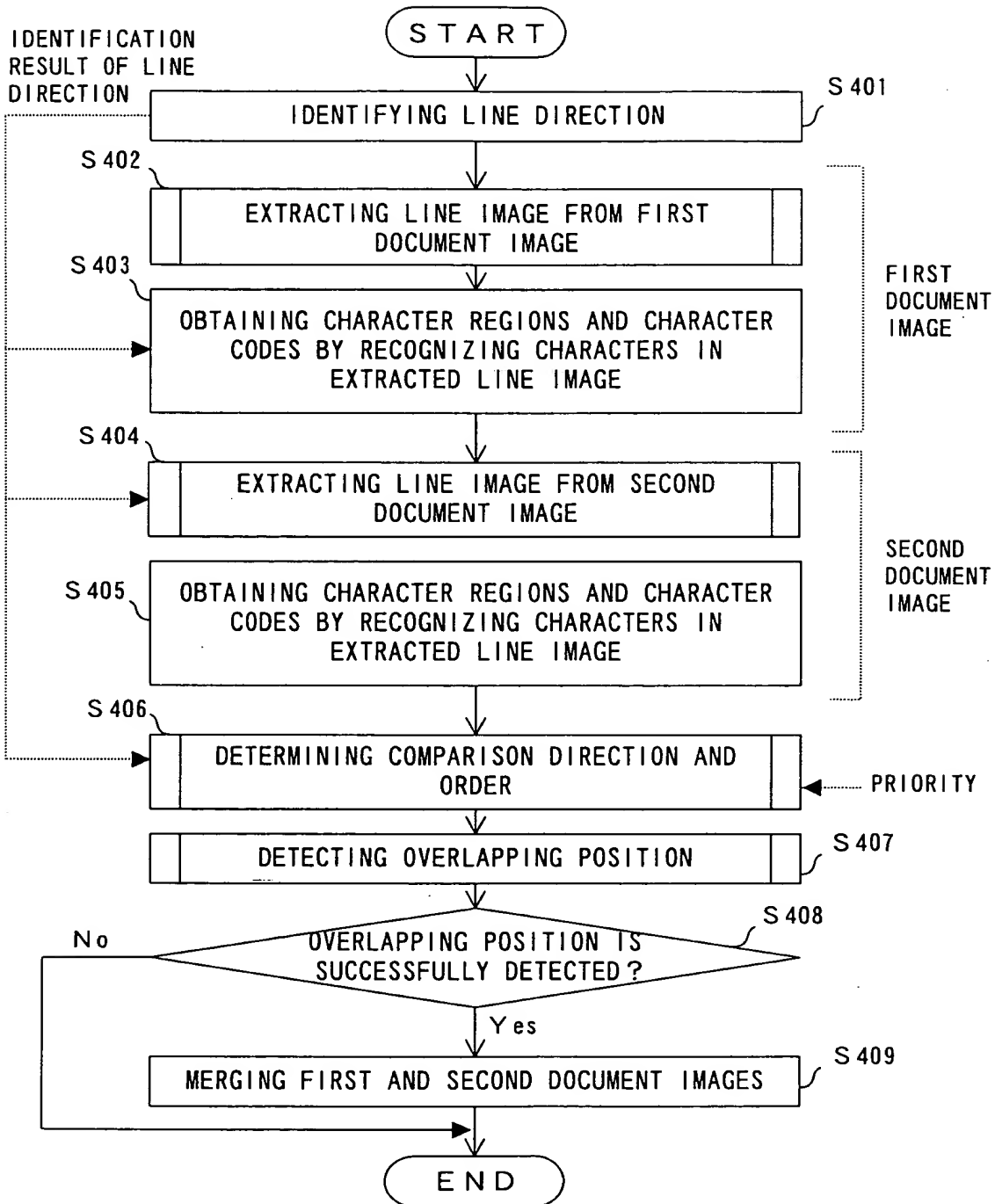


FIG. 4

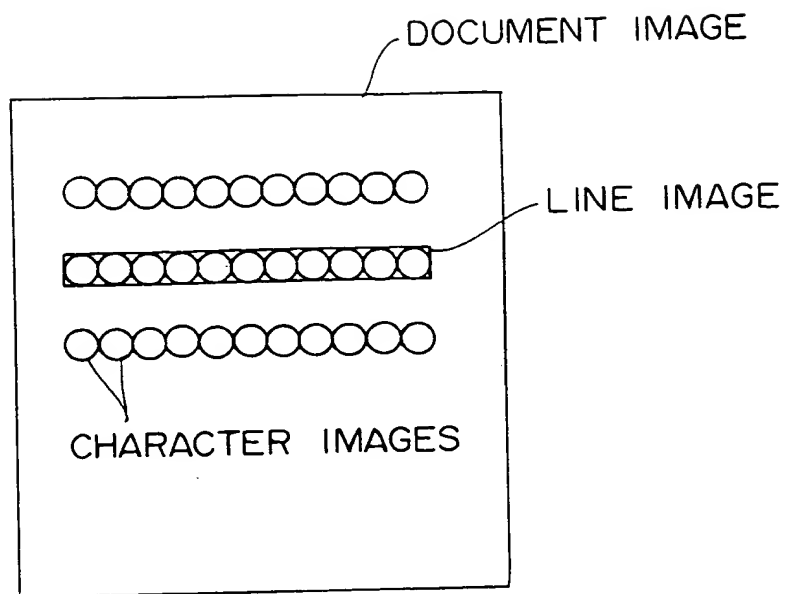


FIG. 5

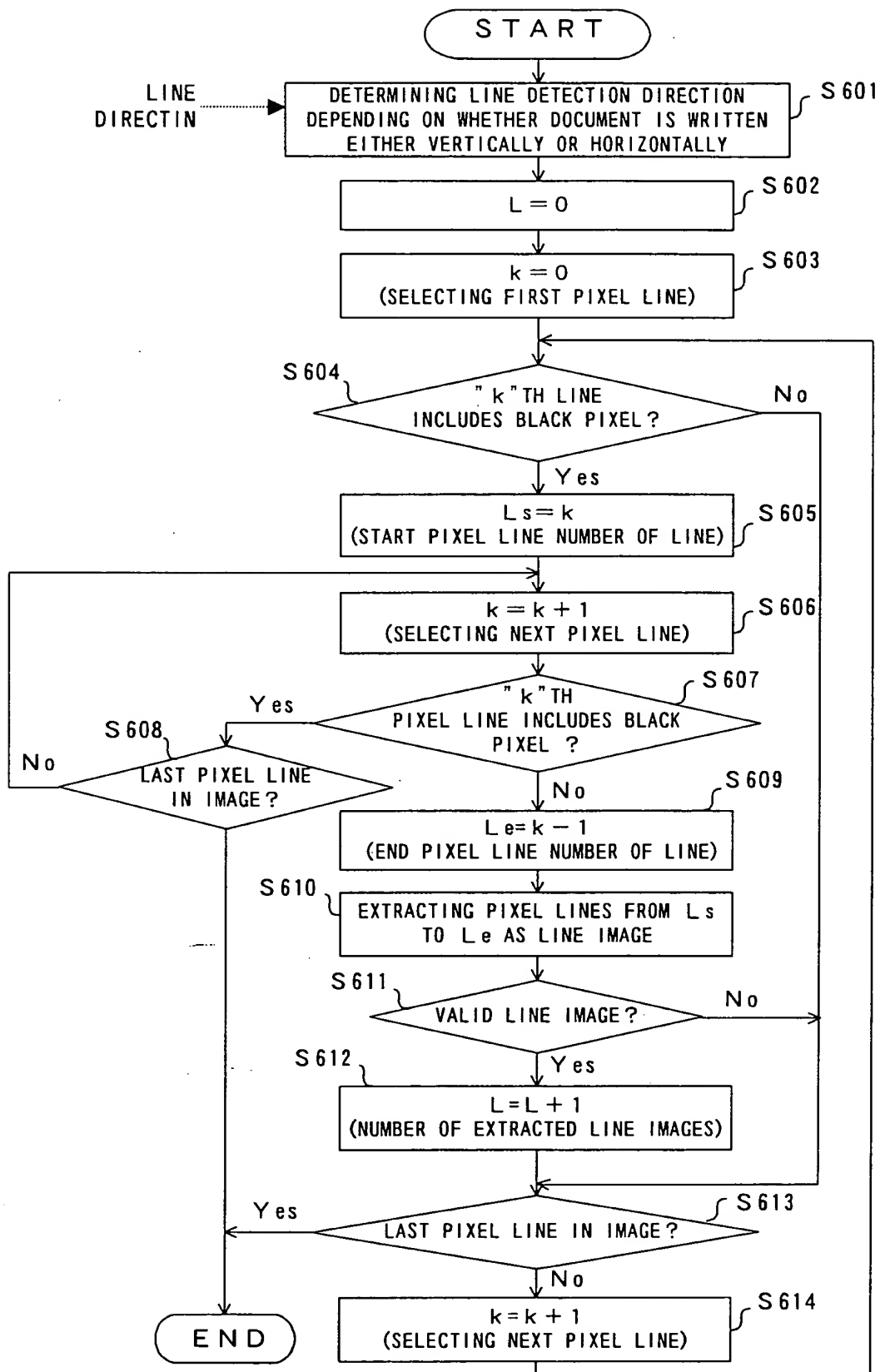


FIG. 6

DOCUMENT IMAGE

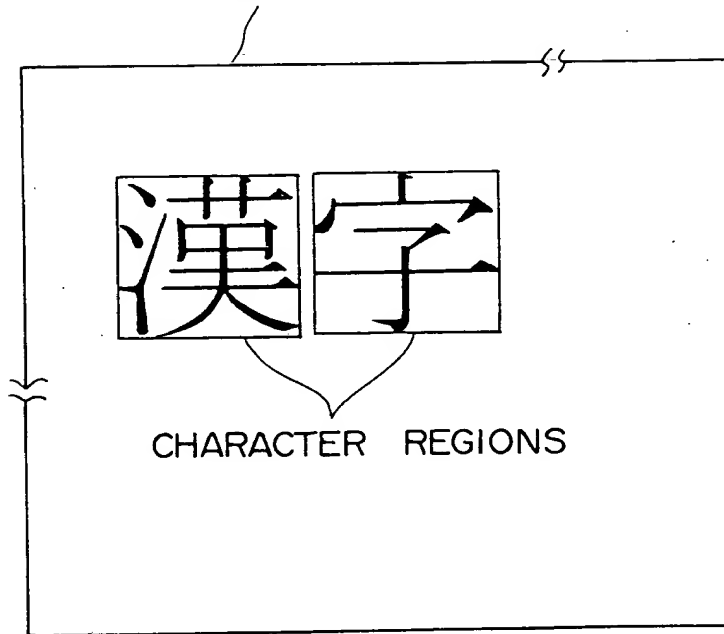
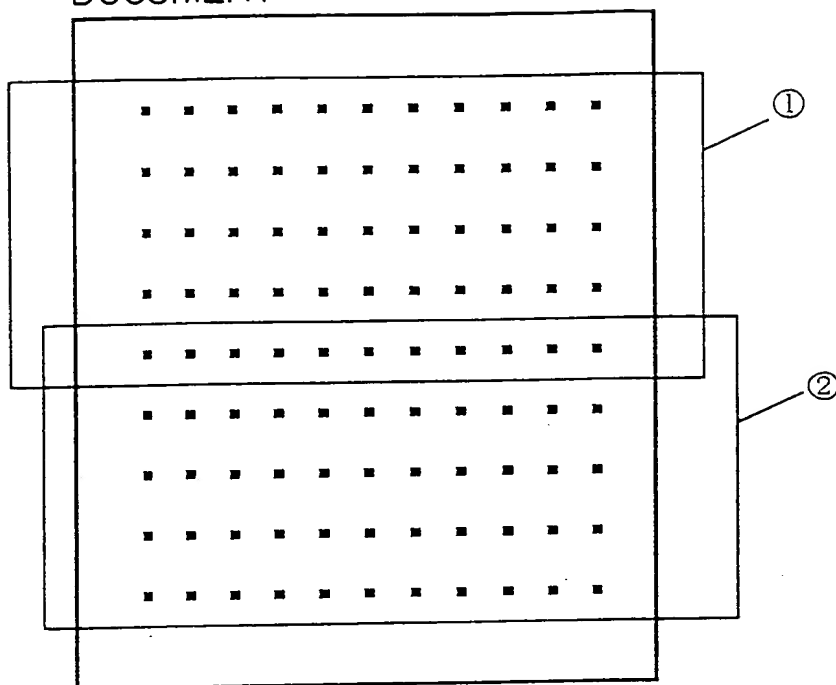


FIG. 7

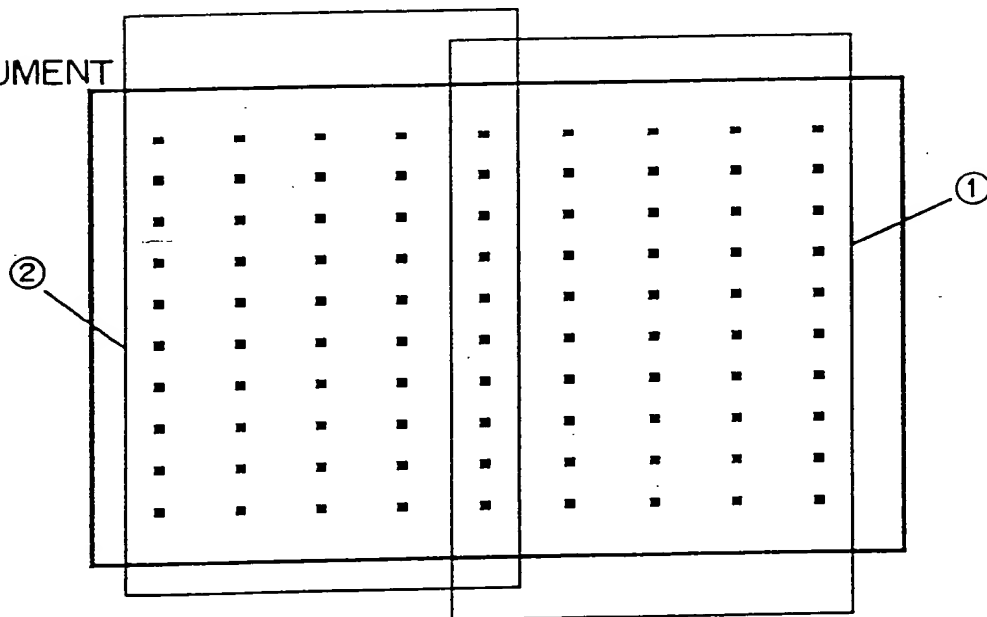
DOCUMENT



HORIZONTALLY WRITTEN DOCUMENT

FIG. 8A

DOCUMENT



VERTICALLY WRITTEN DOCUMENT

FIG. 8B



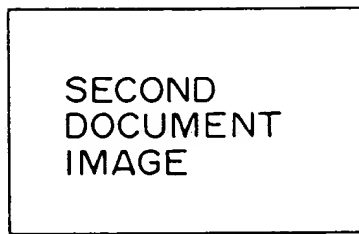
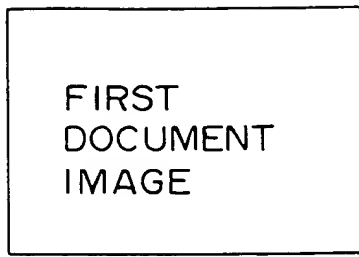


FIG. 9A

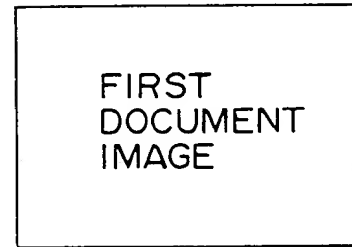
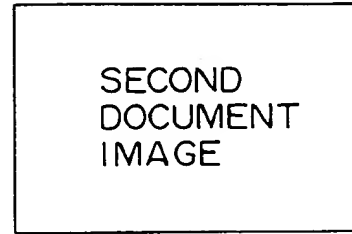


FIG. 9B

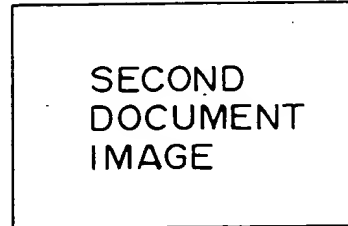
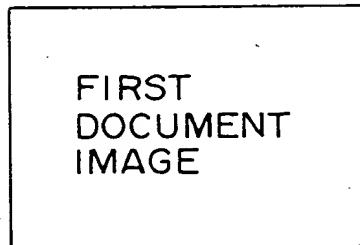


FIG. 9C

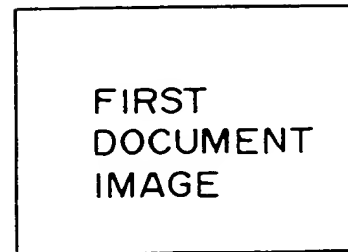
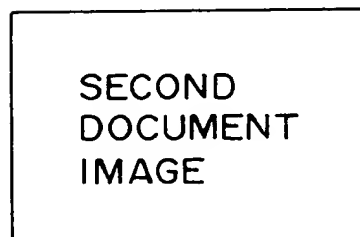
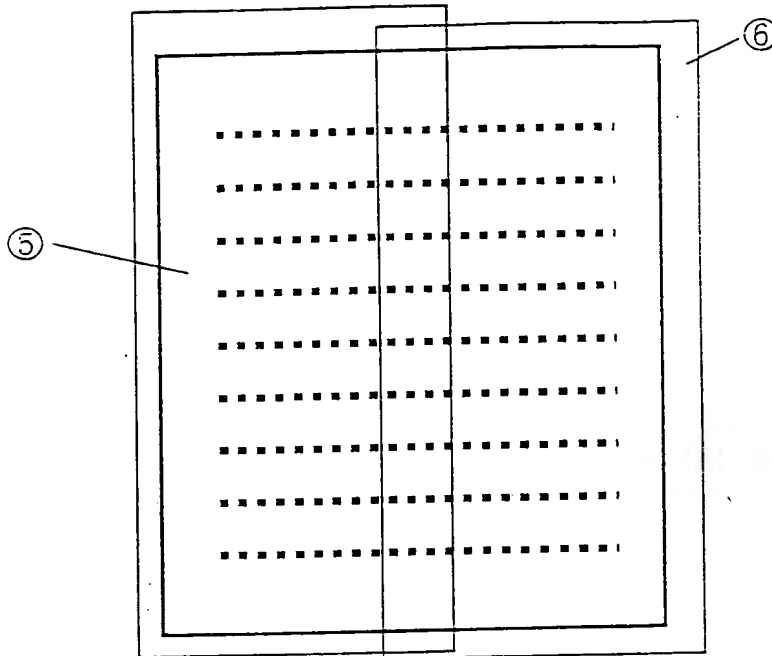


FIG. 9D

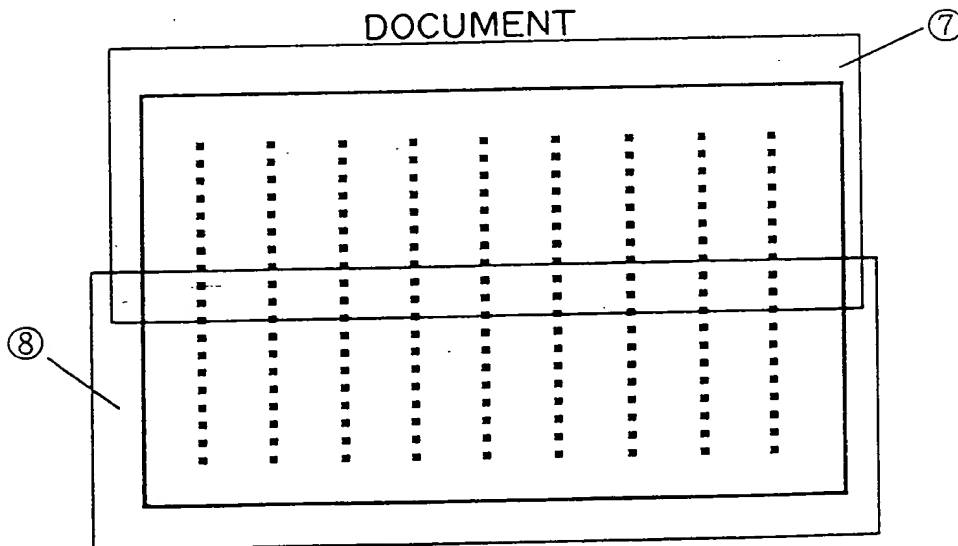
DOCUMENT



WHEN HORIZONTALLY WRITTEN DOCUMENT  
IS SCANNED IN VERTICAL DIRECTION

FIG. 10A

DOCUMENT



WHEN VERTICALLY WRITTEN DOCUMENT  
IS SCANNED IN HORIZONTAL DIRECTION

FIG. 10B

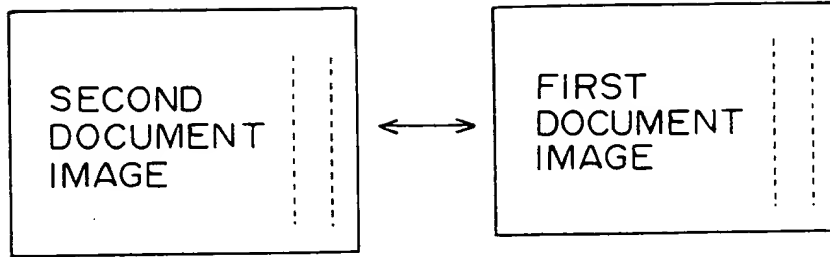


FIG. 11A

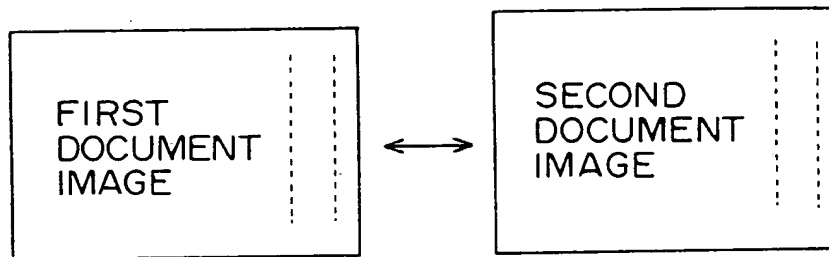


FIG. 11B

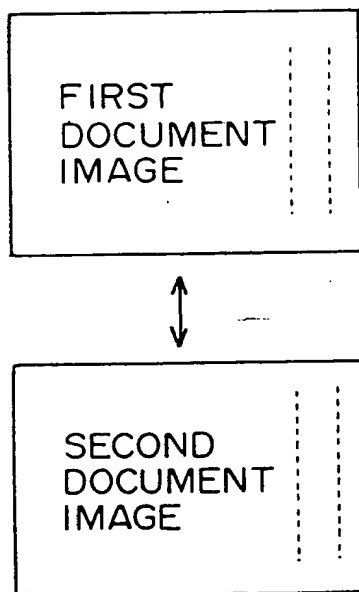


FIG. 11C

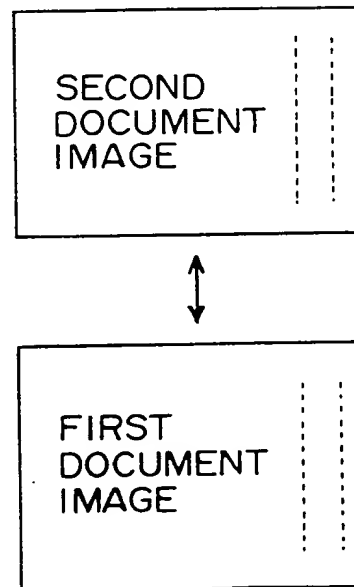


FIG. 11D

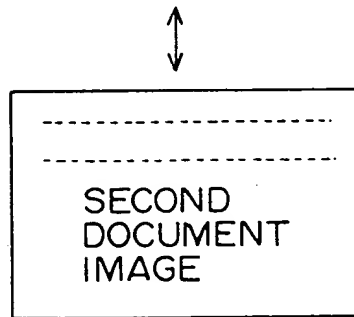
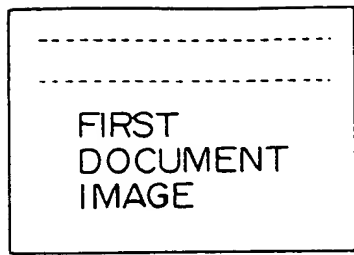


FIG. 12A

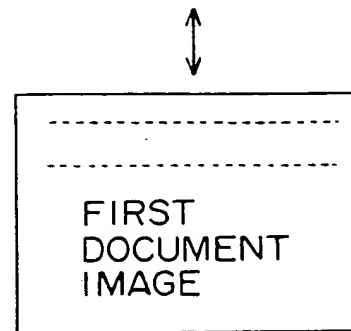
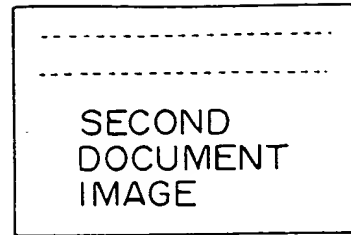


FIG. 12B

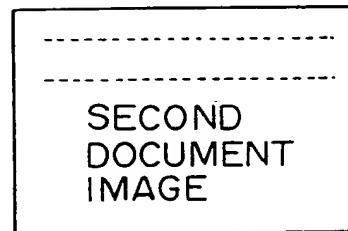
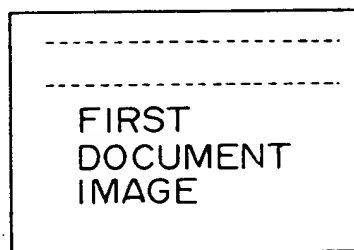


FIG. 12C

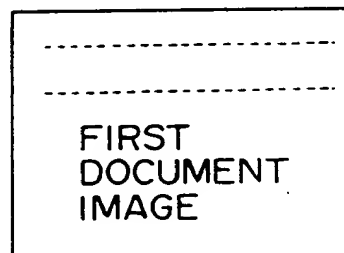
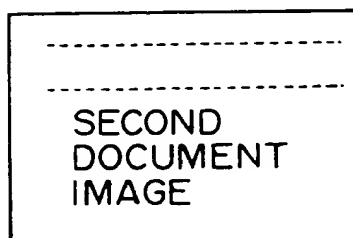


FIG. 12D

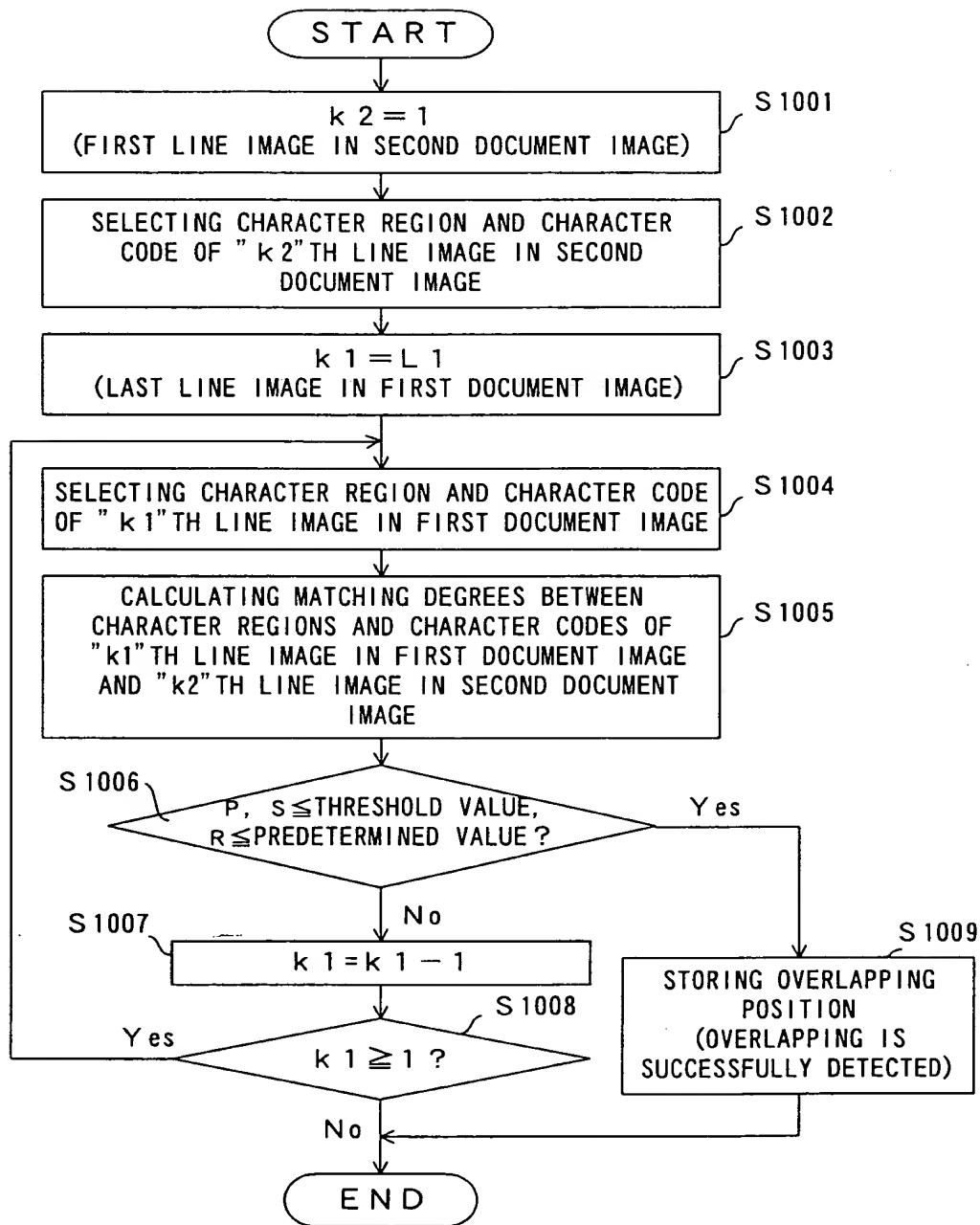


FIG. 13

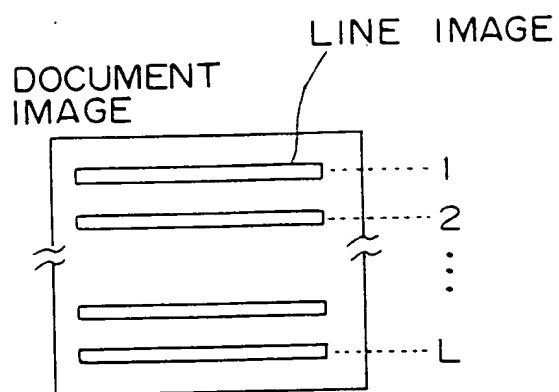


FIG. 14A

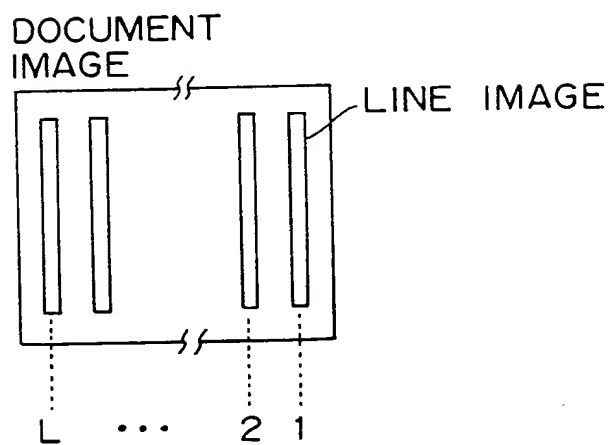


FIG. 14B

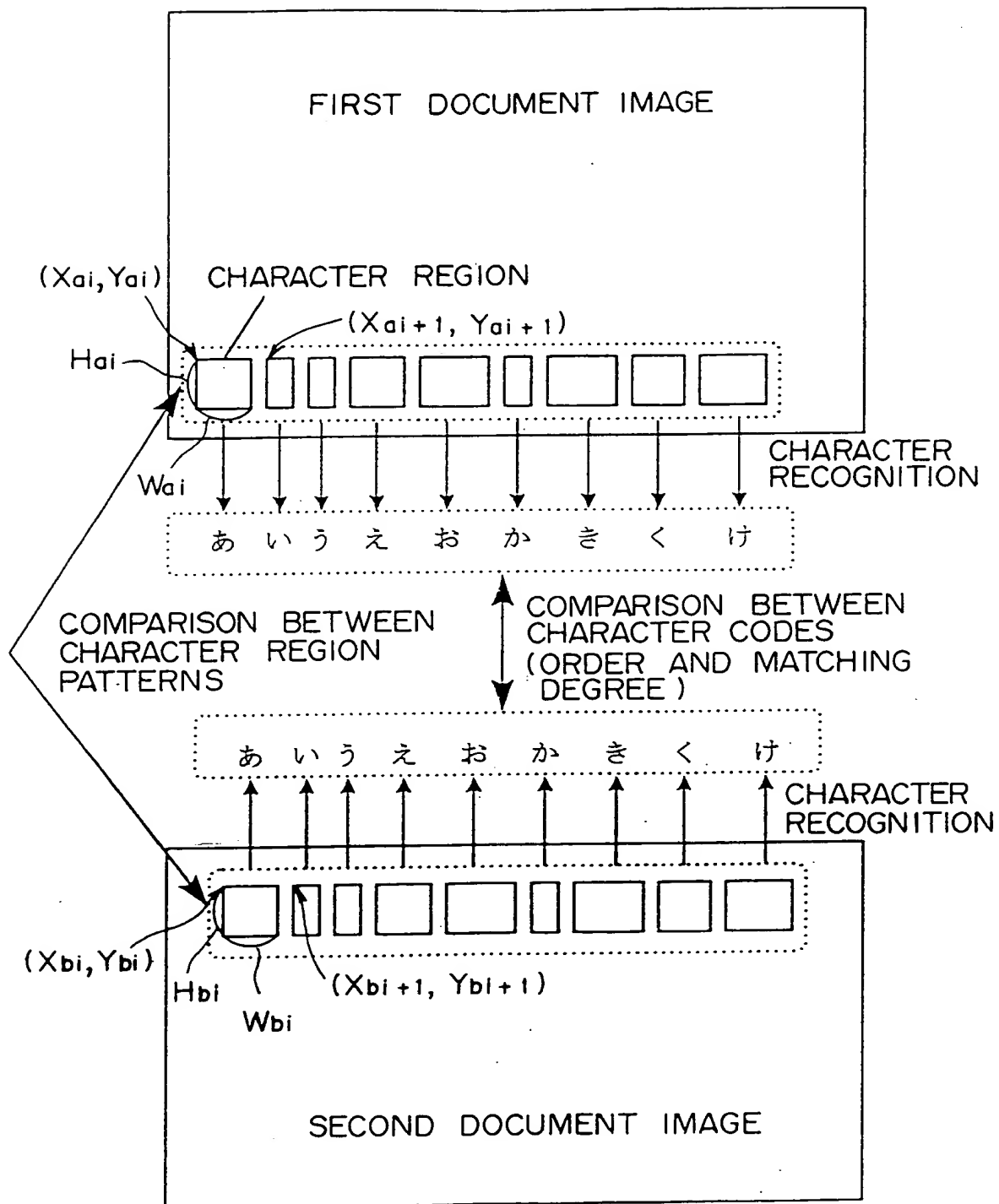


FIG. 15

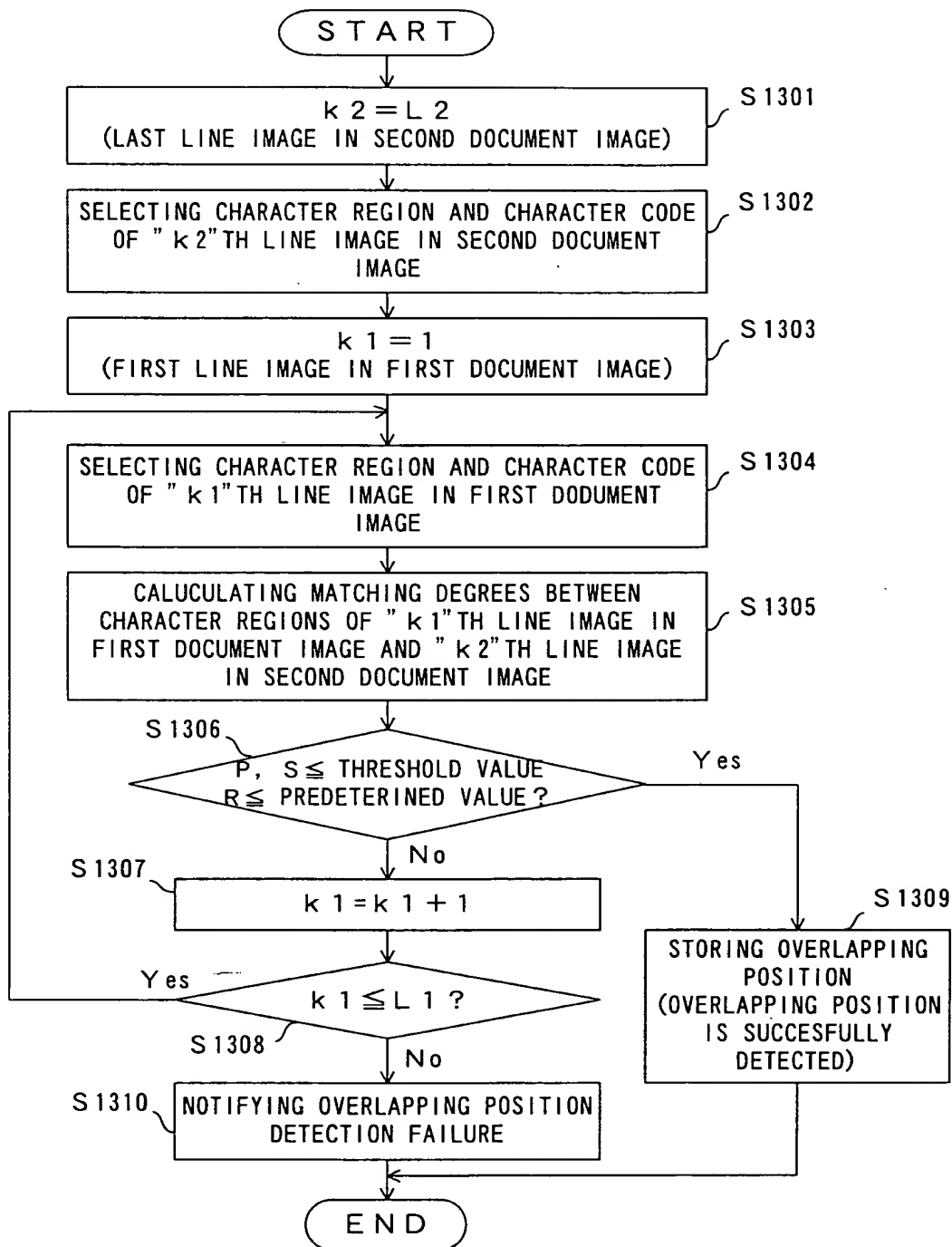


FIG. 16



The flowchart illustrates a process for comparing document images. It begins with a box labeled "FIRST DOCUMENT IMAGE". Inside this box, a row of nine rectangular regions is shown, enclosed in a dotted line. An arrow points to the first region, labeled "CHARACTER IMAGE". A vertical double-headed arrow connects this row to a similar row of nine rectangular regions in a box labeled "SECOND DOCUMENT IMAGE". To the right of this arrow, the text "COMPARISON BETWEEN REGION PATTERNS (MATCHING DEGREES, ARRANGEMENT ORDER, SIZES)" is written.

FIG. 17

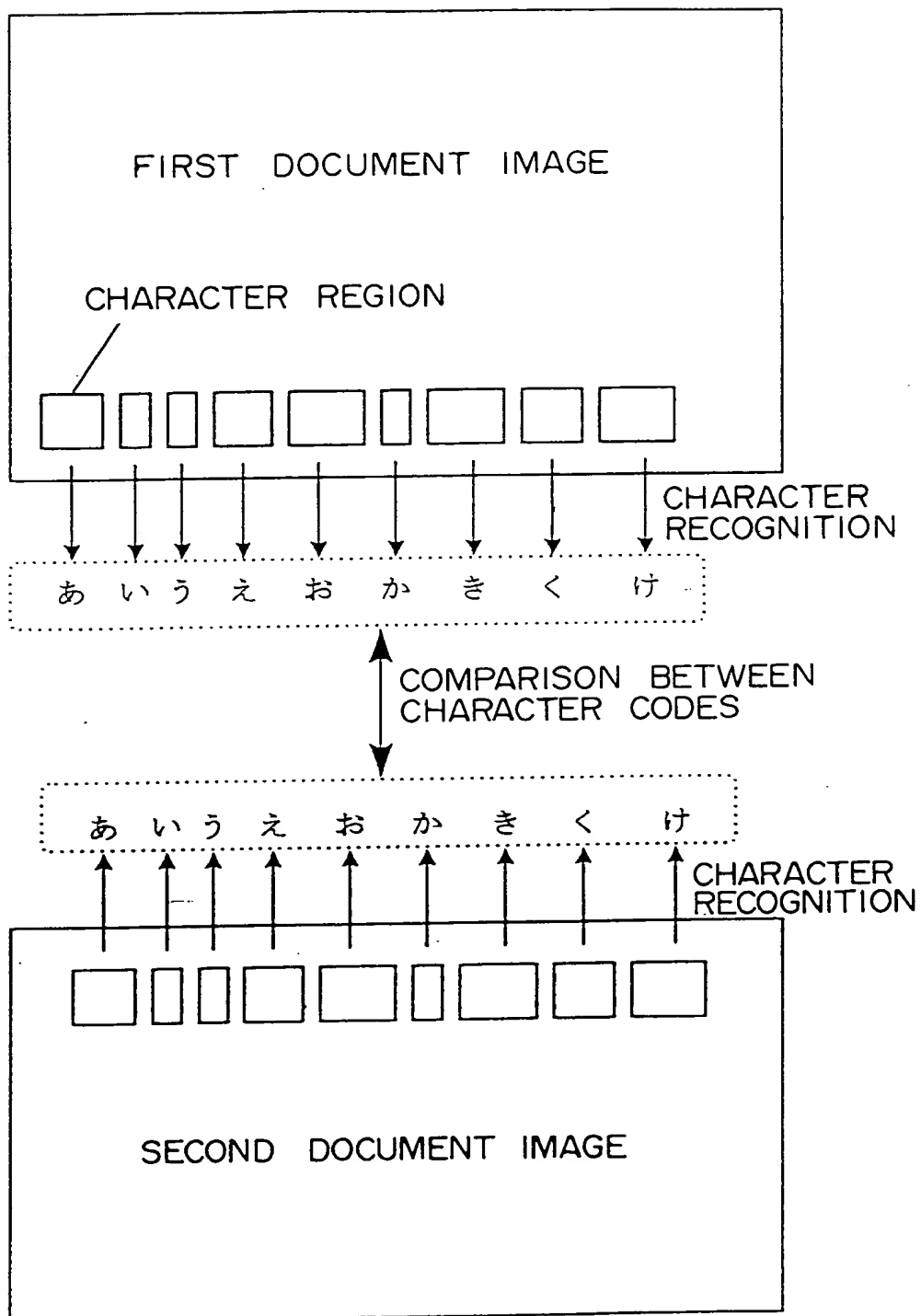


FIG. 18

6606-76548

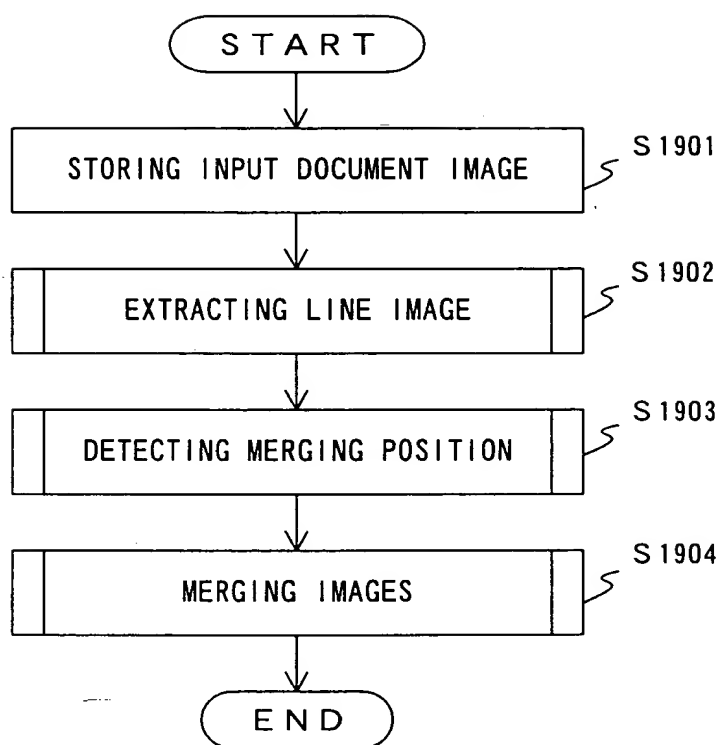


FIG. 19

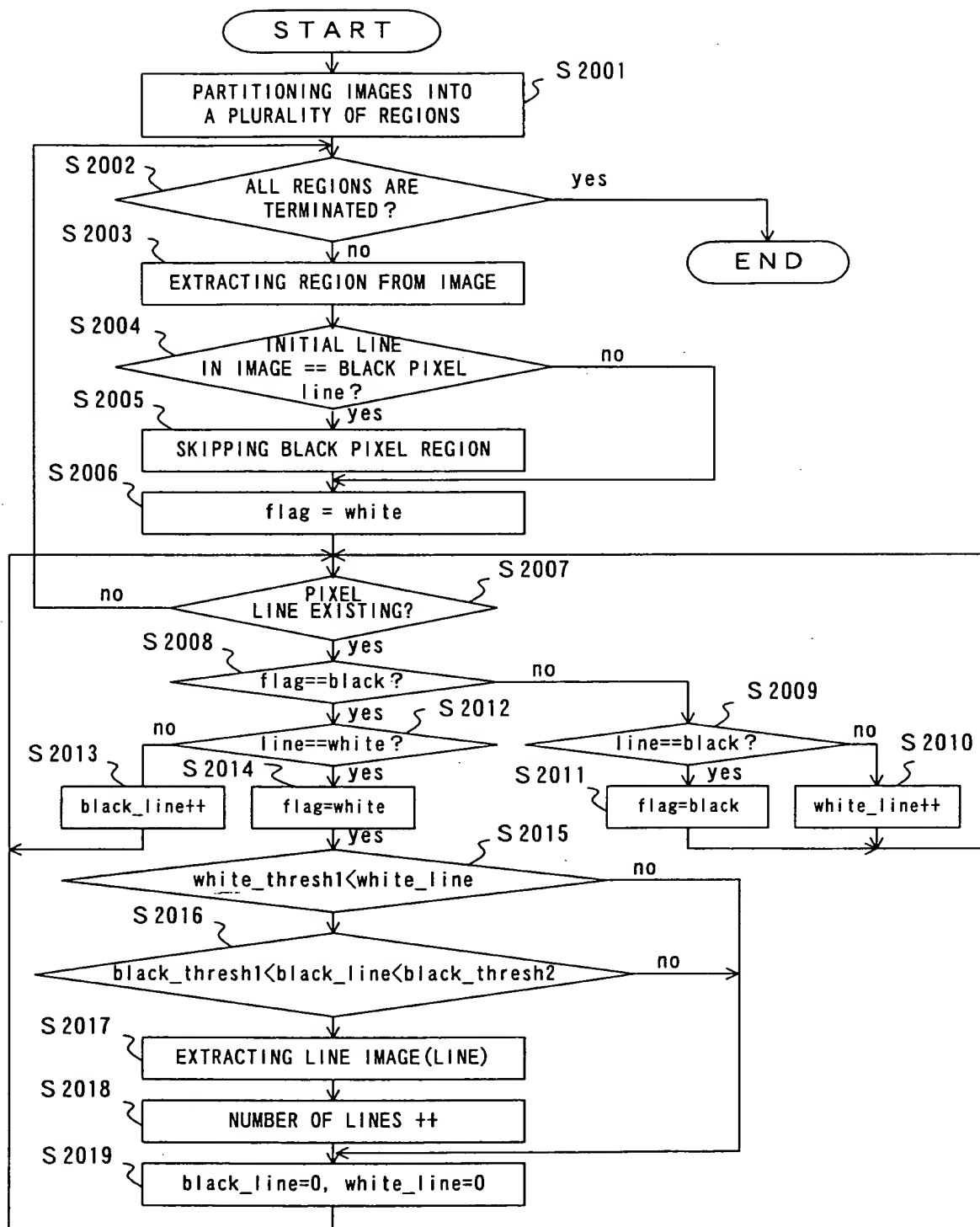
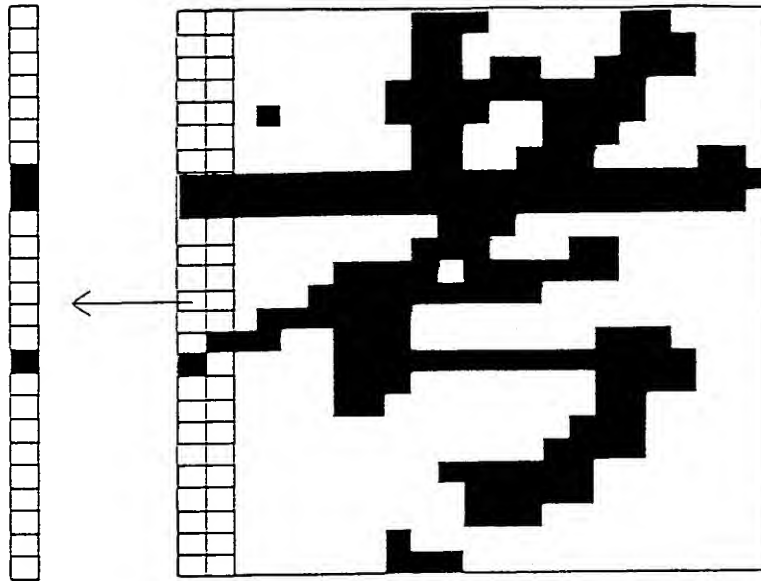


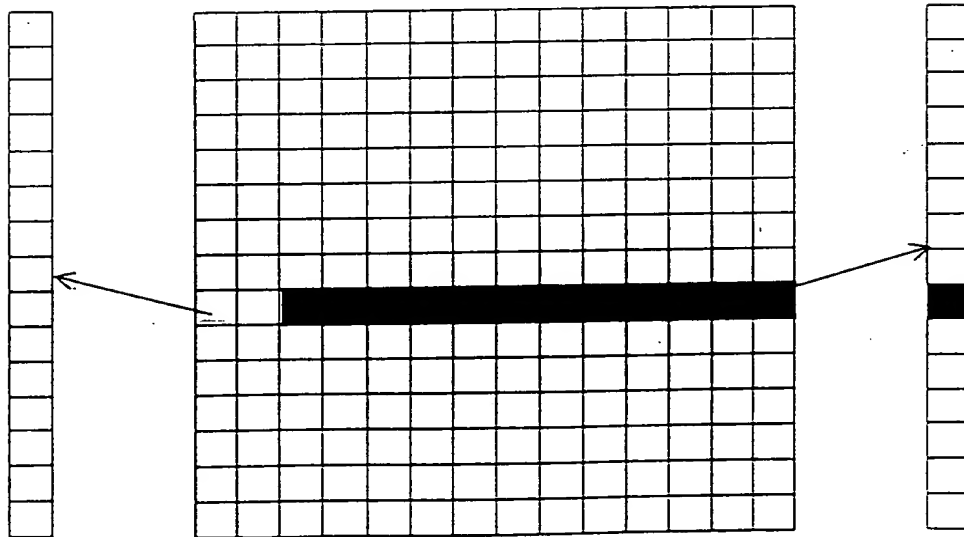
FIG. 20



EXTRACTING BLACK PIXEL LINES

FIG. 21A

DETERMINED ACCORDING TO RATIO  
OF BLACK PIXELS TO WHITE PIXELS

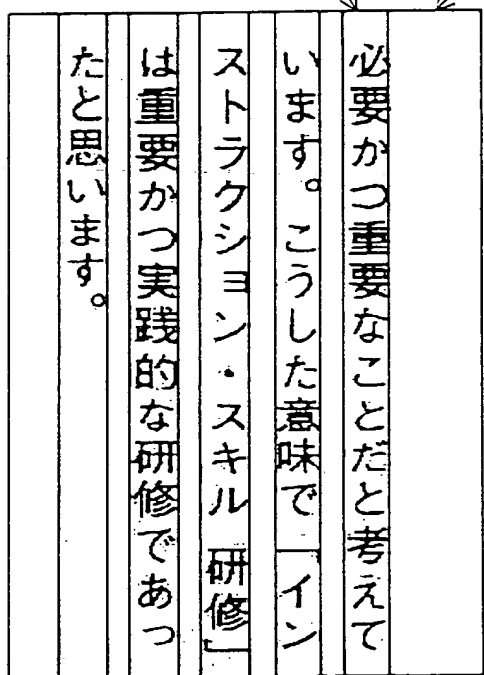


EXTRACTING WHITE PIXEL LINES

FIG. 21B

BLACK PIXEL REGION

WHITE PIXEL REGION



必要かつ重要なことだと考えています。こうした意味で「インストラクション・スキル研修」は重要かつ実践的な研修であったと思います。

BLACK AND WHITE PIXEL  
REGIONS ARE ALTERNATELY  
ARRANGED

FIG. 22

LINES CAN BE EXTRACTED  
BY PARTITIONING DOCUMENT  
IMAGE INTO A PLURALITY  
OF REGIONS

年単学級だったんです。クラブ活  
動も四年生以上は百人ぐらいしか  
いないから、サッカーやソフトボ  
ールなんて人数がそろわない」  
運動会も、広い校庭で一学年約  
三十人のダンスではいかにも寂し  
い。そこで、最低一学年で一つの  
演技をするのだが、そうすると昼  
にはすべてのプログラムが終わっ

REGION 1

年単学級だったんです。クラブ活  
動も四年生以上は百人ぐらいしか  
いないから、サッカーやソフトボ  
ールなんて人数がそろわない」  
運動会も、広い校庭で一学年約  
三十人のダンスではいかにも寂し  
い。そこで、最低一学年で一つの  
演技をするのだが、そうすると昼  
にはすべてのプログラムが終わっ

PARTITIONING

余地もなくなってしまう」  
日本全体が少子化時代に突き進  
むなか、北島さんたちの悩みは、  
程度や時期の差こそあれ、教育現  
状の推移  
子ども数の推移  
80 85 90 95  
これによる合計特異出生率

REGION 2

余地もなくなってしまう」  
日本全体が少子化時代に突き進  
むなか、北島さんたちの悩みは、  
程度や時期の差こそあれ、教育現  
状の推移  
子ども数の推移  
80 85 90 95  
これによる合計特異出生率

FIG. 23

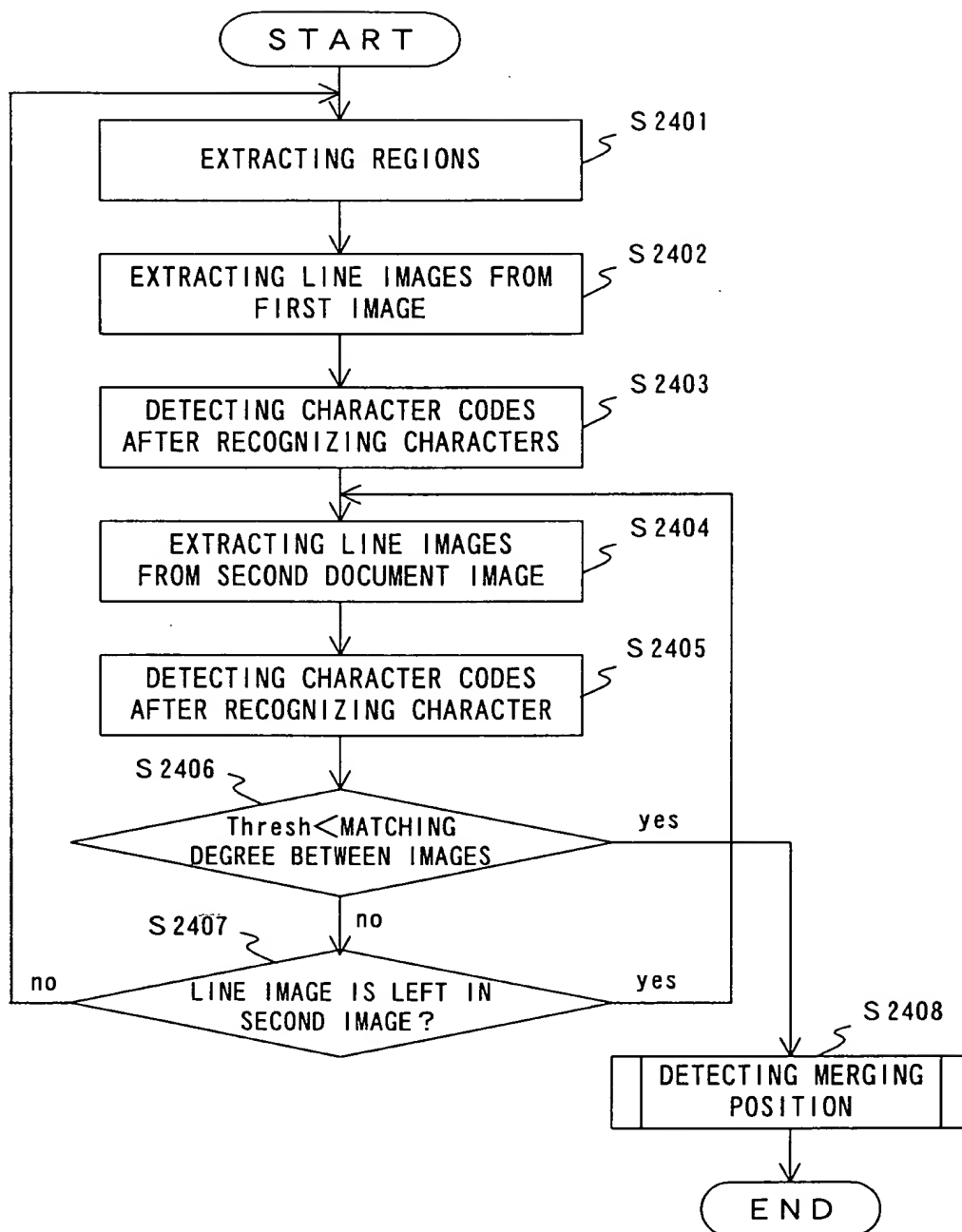


FIG. 24



# COMPARISON BETWEEN CODE NUMBERS AND ORDERS OF CHARACTER CODES

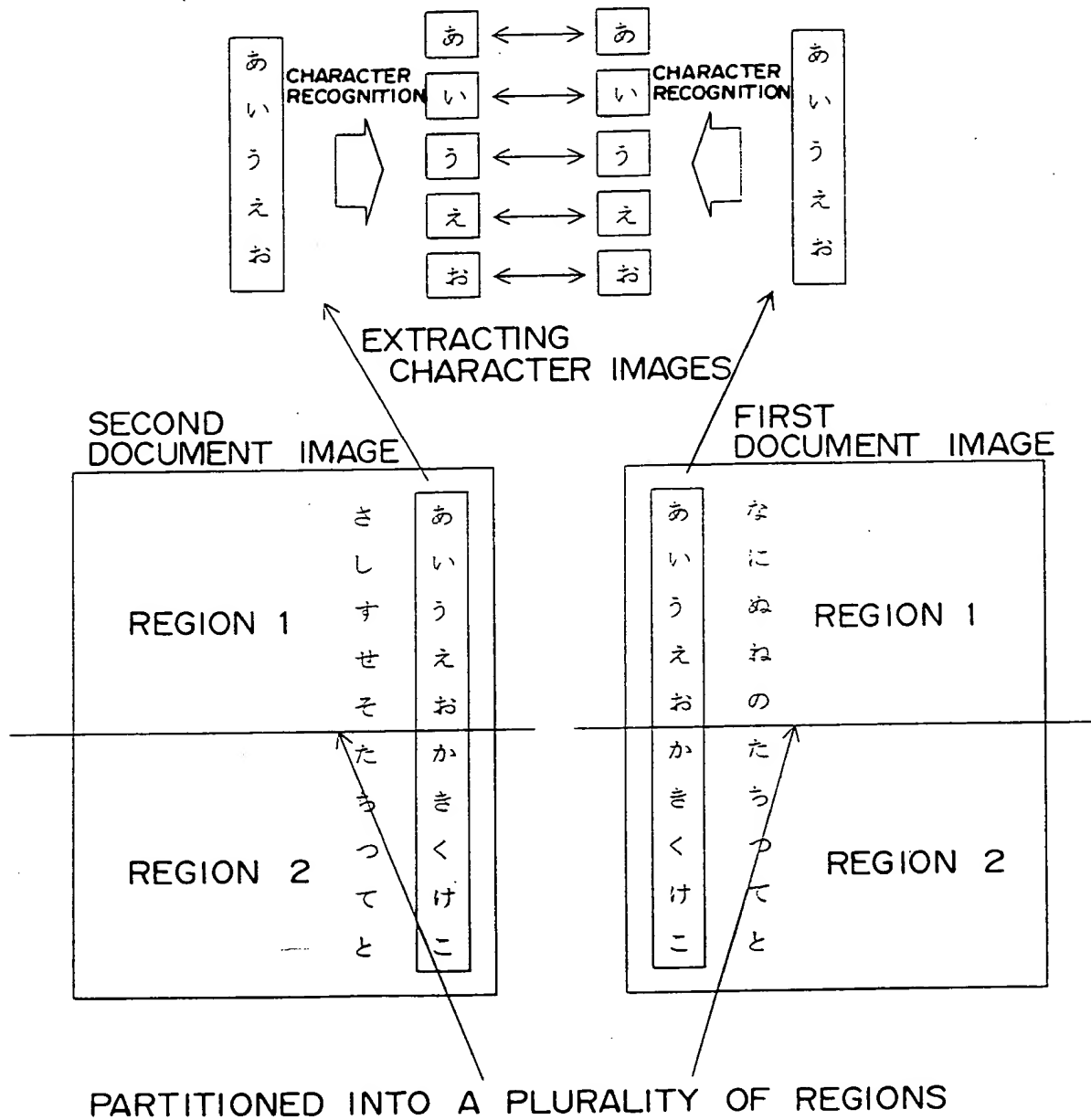


FIG. 25

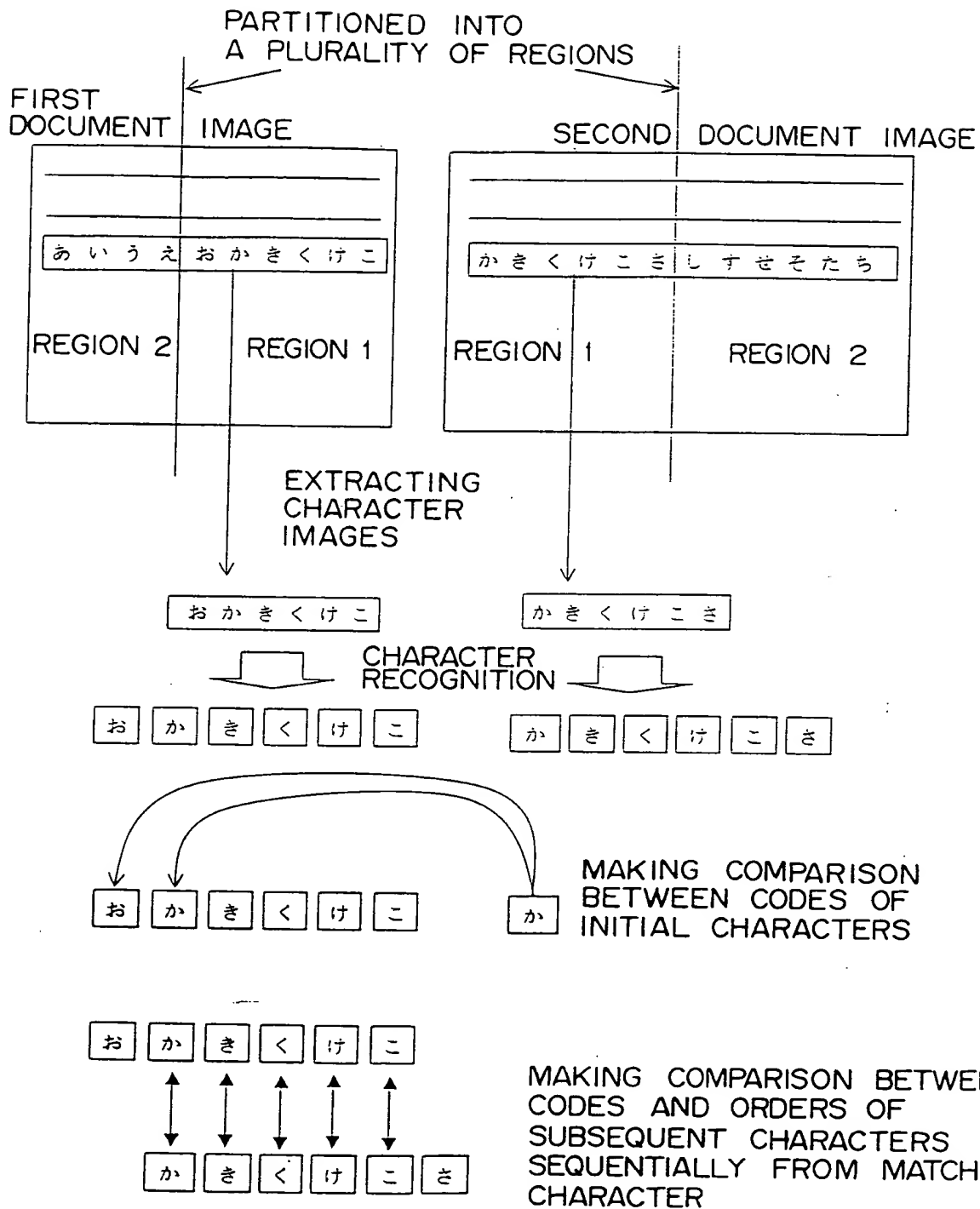


FIG. 26

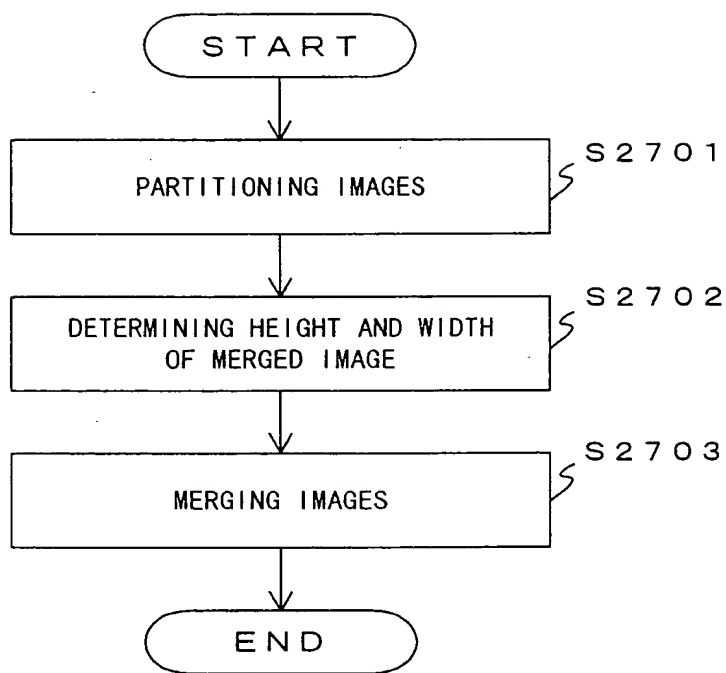


FIG. 27

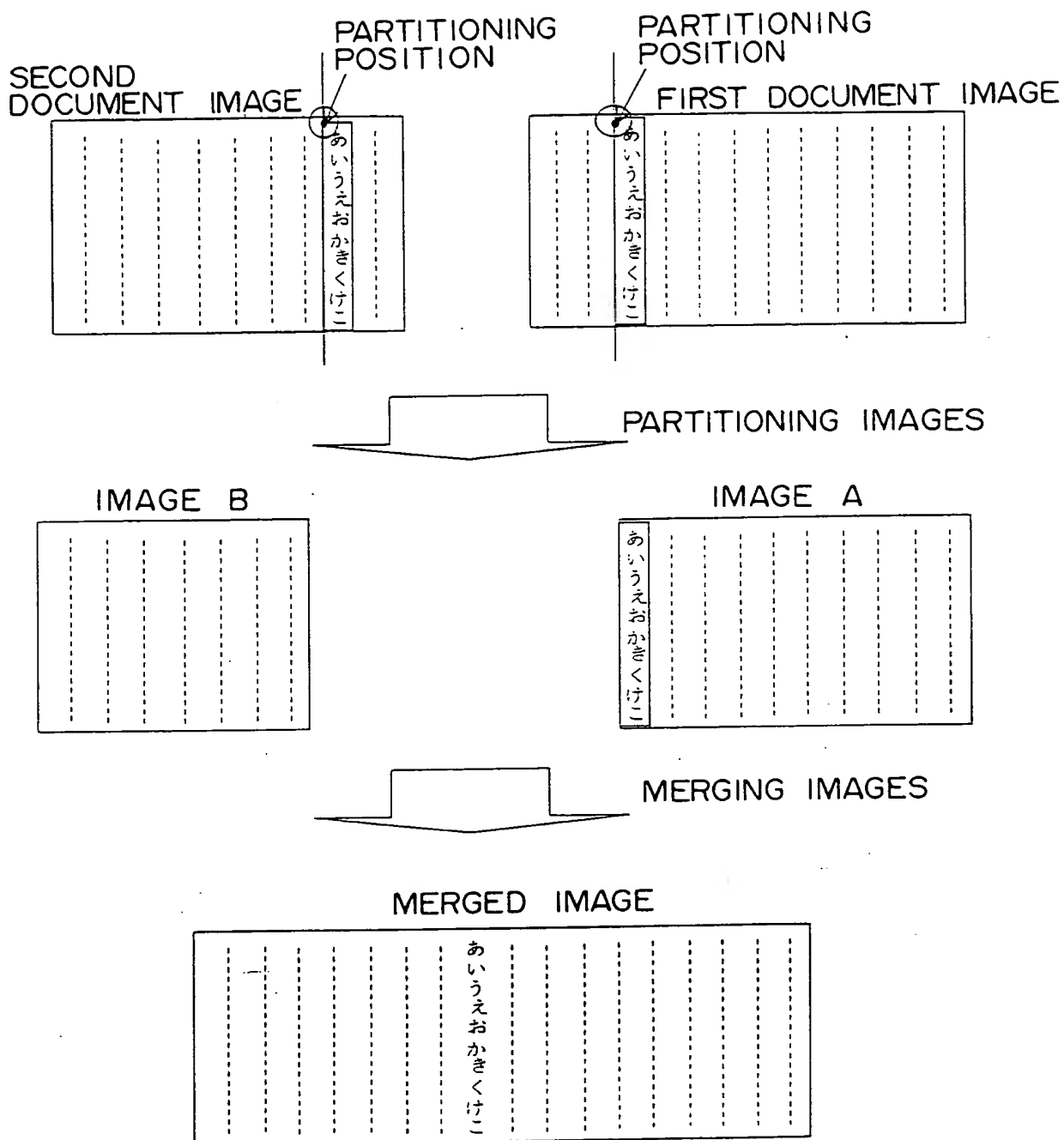


FIG. 28

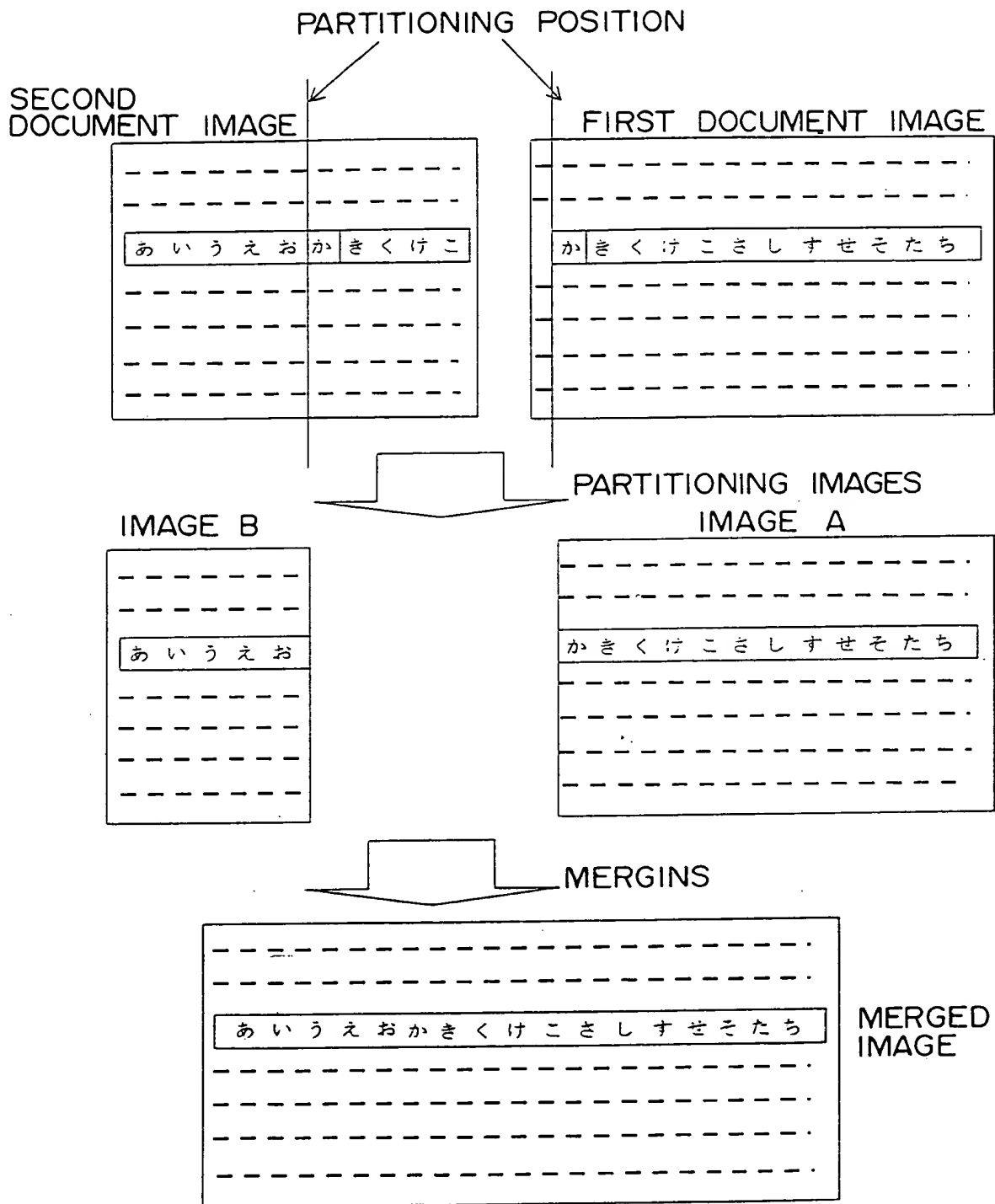


FIG. 29

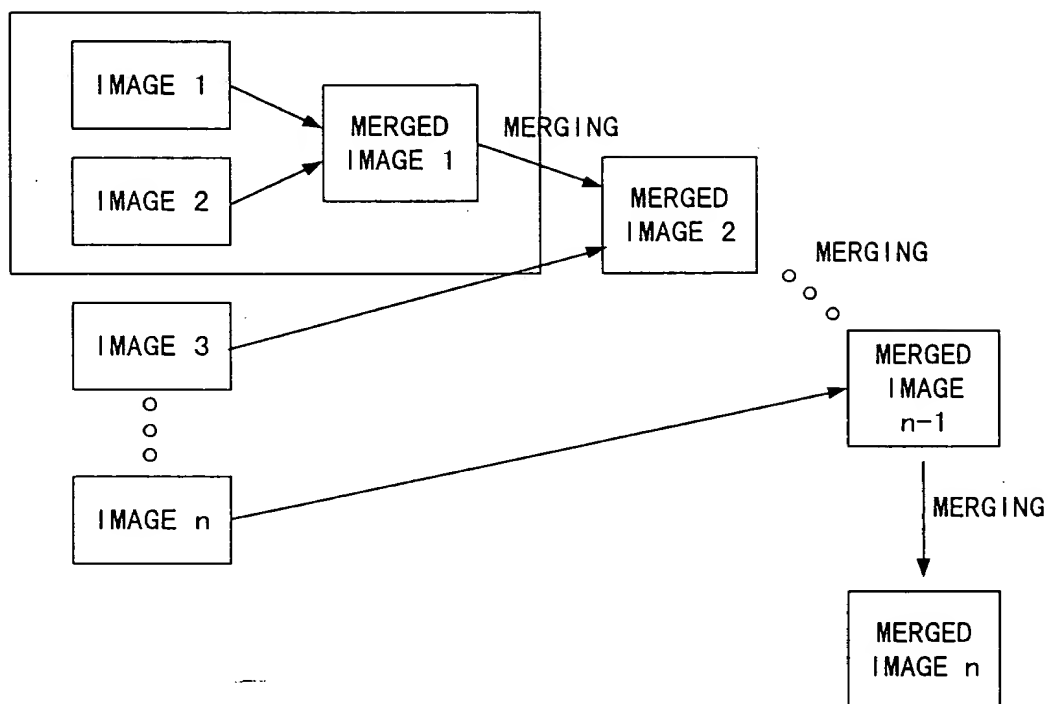


FIG. 30

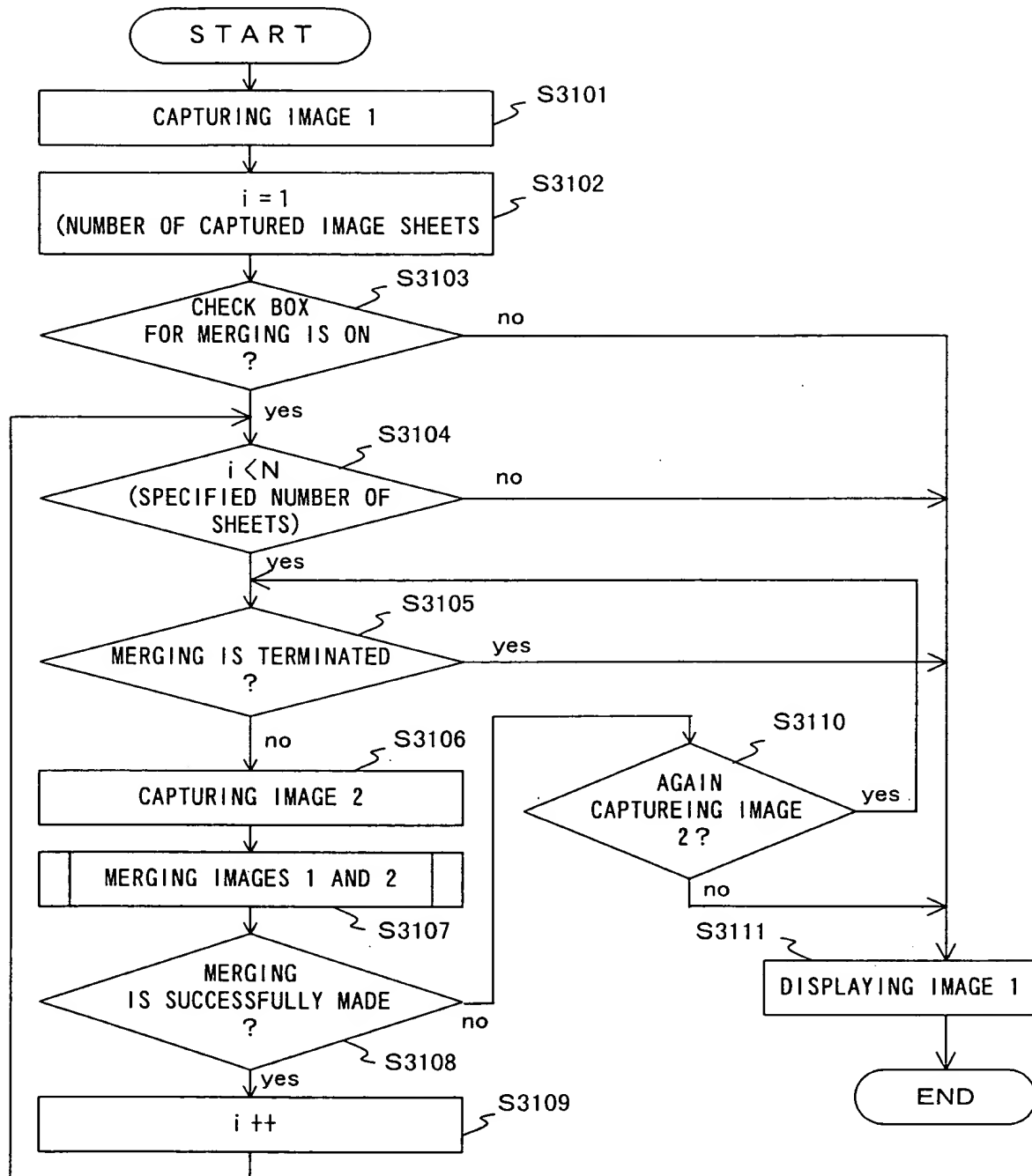


FIG. 31

**IMAGE SCANNER**

RESOLUTION (R): 200 x 200

SETTING UNIT (U): MILLIMETER (mm)

PAPER SIZE (Z): A6 PORTRAIT x 2

IMAGE TYPE (I): BINARY WHITE AND BLACK

HALFTONE (E):

**REGION TO BE READ**

WIDTH x LENGTH

105 x 297 mm

**READ PARAMETERS**

BRIGHTNESS (B): 4

THRESHOLD (D): 121

THRESHOLD AUTOMATIC

☒ AUTOMATIC MERGING

☐ MERGING TERMINATION

NUMBER OF MERGING SHEETS (YET TO BE SCANNED): 4

READ

**READ DIRECTION**

☒ AUTOMATIC (C)

☐ INVERT BLACK AND WHITE (V)

☐ HIGHLIGHT OUTLINE (K)

RIGHT → LEFT / TOP → BOTTOM / M

CORRECT (Q)

HELP (H)

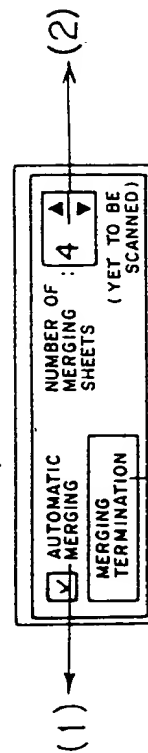


FIG. 32



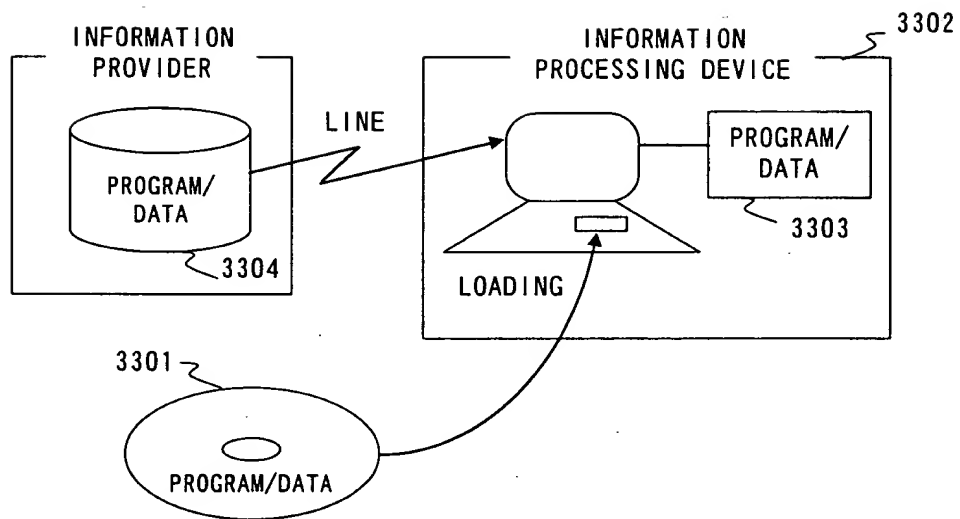


FIG. 33

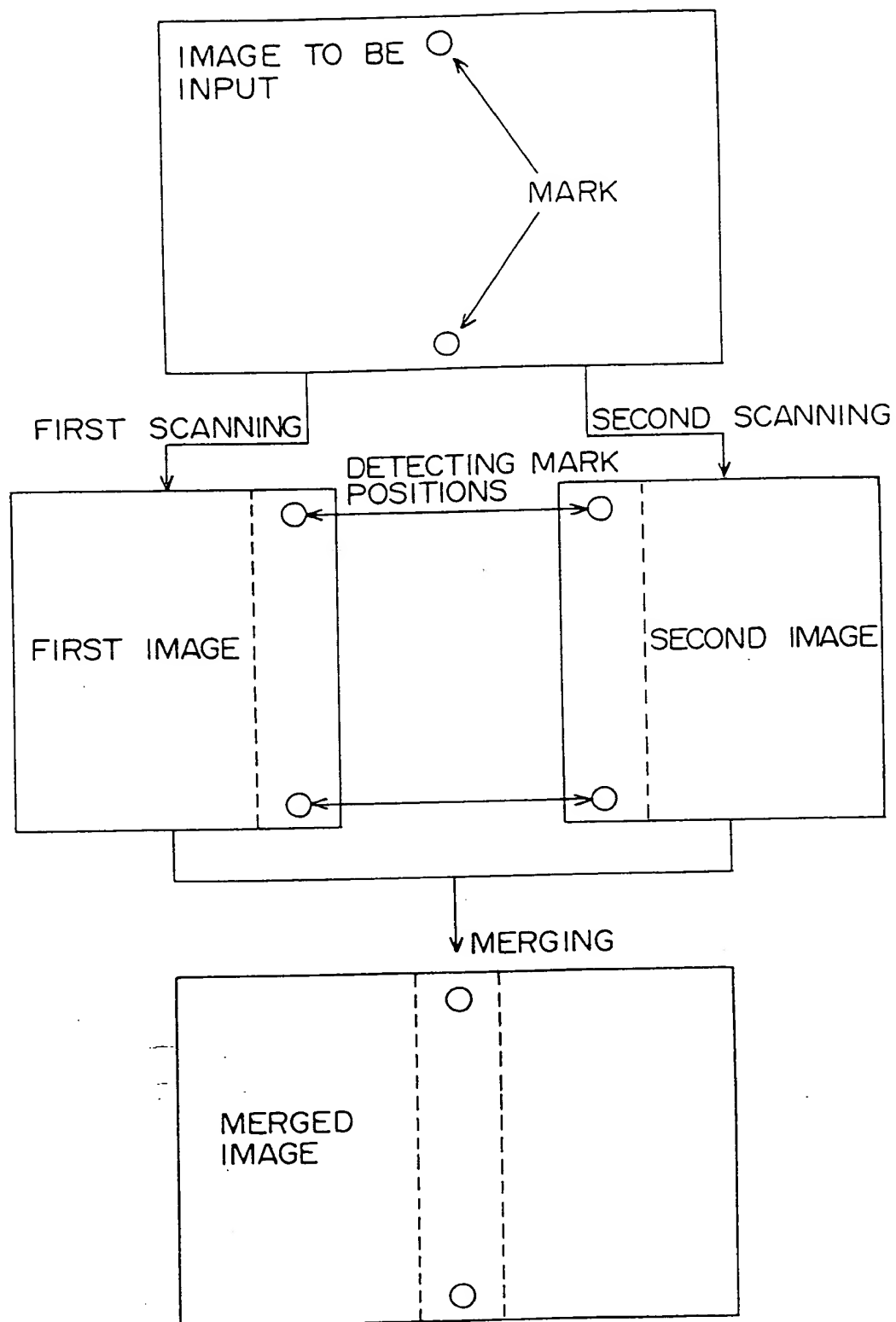


FIG. 34